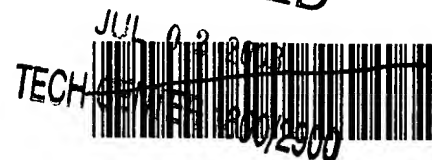


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1600

## RAW SEQUENCE LISTING

DATE: 06/23/2003

PATENT APPLICATION: US/09/809,746A

TIME: 14:44:30

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Output Set: N:\CRF4\06232003\I809746A.raw

3 <110> APPLICANT: Jardetzky, Theodore S.  
 4 Wurzburg, Beth A.  
 6 <120> TITLE OF INVENTION: THREE-DIMENSIONAL MODEL OF A Fc REGION OF AN IgE ANTIBODY

AND

7 USES THEREOF  
 9 <130> FILE REFERENCE: AL-9-C2  
 11 <140> CURRENT APPLICATION NUMBER: 09/809,746A  
 12 <141> CURRENT FILING DATE: 2001-03-15  
 14 <150> PRIOR APPLICATION NUMBER: 60/234,877  
 15 <151> PRIOR FILING DATE: 2000-09-22  
 17 <150> PRIOR APPLICATION NUMBER: 60/189,403  
 18 <151> PRIOR FILING DATE: 2000-03-15  
 20 <160> NUMBER OF SEQ ID NOS: 7  
 22 <170> SOFTWARE: PatentIn version 3.2  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 669  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Homo sapiens  
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 31 <221> NAME/KEY: CDS  
 32 <222> LOCATION: (1)..(666)  
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35	gcg gat ccc tgt gat tcc aac ccg aga ggg gtg agc gcc tac cta agc	48
36	Ala Asp Pro Cys Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser	
37	1 5 10 15	
39	cgg ccc agc ccg ttc gac ctg ttc atc cgc aag tcg ccc acg atc acc	96
40	Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr	
41	20 25 30	
43	tgt ctg gtg gtg gac ctg gca ccc agc aag ggg acc gtg aac ctg acc	144
44	Cys Leu Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr	
45	35 40 45	
47	tgg tcc cgg gcc agt ggg aag cct gtg aac cac tcc acc aga aag gag	192
48	Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu	
49	50 55 60	
51	gag aag cag cgc aat ggc acg tta acc gtc acg tcc acc ctg ccg gtg	240
52	Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro Val	
53	65 70 75 80	
55	ggc acc cga gac tgg atc gag ggg gag acc tac cag tgc agg gtg acc	288
56	Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg Val Thr	
57	85 90 95	
59	cac ccc cac ctg ccc agg gcc ctc atg cgg tcc acg acc aag acc agc	336
60	His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Thr Ser	
61	100 105 110	
63	ggc ccg cgt gct gcc ccg gaa gtc tat gcg ttt gcg acg ccg gag tgg	384

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Input Set : A:\AL-9-C2\_corrected.txt

Output Set: N:\CRF4\06232003\I809746A.raw

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64 Gly Pro Arg Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro Glu Trp
65      115      120      125
67 ccg ggg agc cgg gac aag cgc acc ctc gcc tgc ctg atc cag aac ttc      432
68 Pro Gly Ser Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln Asn Phe
69      130      135      140
71 atg cct gag gac atc tcg gtg cag tgg ctg cac aac gag gtg cag ctc      480
72 Met Pro Glu Asp Ile Ser Val Gln Trp Leu His Asn Glu Val Gln Leu
73 145      150      155      160
75 ccg gac gcc cgg cac agc acg acg cag ccc cgc aag acc aag ggc tcc      528
76 Pro Asp Ala Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys Gly Ser
77      165      170      175
79 ggc ttc ttc gtc ttc agc cgc ctg gag gtg acc agg gcc gaa tgg gag      576
80 Gly Phe Phe Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu Trp Glu
81      180      185      190
83 cag aaa gat gag ttc atc tgc cgt gca gtc cat gag gca gcg agc ccc      624
84 Gln Lys Asp Glu Phe Ile Cys Arg Ala Val His Glu Ala Ala Ser Pro
85      195      200      205
87 tca cag acc gtc cag cga gcg gtg tct gta aat ccc ggt aaa tga      669
88 Ser Gln Thr Val Gln Arg Ala Val Ser Val Asn Pro Gly Lys
89      210      215      220
92 <210> SEQ ID NO: 2
93 <211> LENGTH: 222
94 <212> TYPE: PRT
95 <213> ORGANISM: Homo sapiens
97 <400> SEQUENCE: 2
99 Ala Asp Pro Cys Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser
100 1      5      10      15
103 Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr
104      20      25      30
107 Cys Leu Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr
108      35      40      45
111 Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu
112      50      55      60
115 Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro Val
116 65      70      75      80
119 Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg Val Thr
120      85      90      95
123 His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Thr Ser
124      100      105      110
127 Gly Pro Arg Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro Glu Trp
128      115      120      125
131 Pro Gly Ser Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln Asn Phe
132      130      135      140
135 Met Pro Glu Asp Ile Ser Val Gln Trp Leu His Asn Glu Val Gln Leu
136 145      150      155      160
139 Pro Asp Ala Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys Gly Ser
140      165      170      175
143 Gly Phe Phe Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu Trp Glu
144      180      185      190

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Input Set : A:\AL-9-C2\_corrected.txt

Output Set: N:\CRF4\06232003\I809746A.raw

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147 Gln Lys Asp Glu Phe Ile Cys Arg Ala Val His Glu Ala Ala Ser Pro
148           195                200                205
151 Ser Gln Thr Val Gln Arg Ala Val Ser Val Asn Pro Gly Lys
152       210                215                220
155 <210> SEQ ID NO: 3
156 <211> LENGTH: 220
157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 3
162 Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro
163 1           5                10                15
166 Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Cys Leu
167           20                25                30
170 Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser
171           35                40                45
174 Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu Glu Lys
175       50                55                60
178 Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro Val Gly Thr
179 65           70                75                80
182 Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg Val Thr His Pro
183           85                90                95
186 His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Thr Ser Gly Pro
187       100                105                110
190 Arg Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro Glu Trp Pro Gly
191       115                120                125
194 Ser Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln Asn Phe Met Pro
195       130                135                140
198 Glu Asp Ile Ser Val Gln Trp Leu His Asn Glu Val Gln Leu Pro Asp
199 145           150                155                160
202 Ala Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys Gly Ser Gly Phe
203           165                170                175
206 Phe Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu Trp Glu Gln Lys
207           180                185                190
210 Asp Glu Phe Ile Cys Arg Ala Val His Glu Ala Ala Ser Pro Ser Gln
211       195                200                205
214 Thr Val Gln Arg Ala Val Ser Val Asn Pro Gly Lys
215       210                215                220
218 <210> SEQ ID NO: 4
219 <211> LENGTH: 217
220 <212> TYPE: PRT
221 <213> ORGANISM: Mus musculus
223 <400> SEQUENCE: 4
225 Ile Cys Thr Val Pro Glu Val Ser Ser Val Phe Ile Phe Pro Pro Lys
226 1           5                10                15
229 Pro Lys Asp Val Leu Thr Ile Thr Leu Thr Pro Lys Val Thr Cys Val
230           20                25                30
233 Val Val Asp Ile Ser Lys Asp Asp Pro Glu Val Gln Phe Ser Trp Phe
234       35                40                45
237 Val Asp Asp Val Glu Val His Thr Ala Gln Thr Gln Pro Arg Glu Glu

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Input Set : A:\AL-9-C2\_corrected.txt

Output Set: N:\CRF4\06232003\I809746A.raw

```

238      50                      55                      60
241 Gln Phe Asn Ser Thr Phe Arg Ser Val Ser Glu Leu Pro Ile Met His
242 65                      70                      75                      80
245 Gln Asp Trp Leu Asn Gly Lys Glu Phe Lys Cys Arg Val Asn Ser Ala
246                      85                      90                      95
249 Ala Phe Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Arg
250                      100                     105                     110
253 Pro Lys Ala Pro Gln Val Tyr Thr Ile Pro Pro Pro Lys Glu Gln Met
254                      115                     120                     125
257 Ala Lys Asp Lys Val Ser Leu Thr Cys Met Ile Thr Asp Phe Phe Pro
258                      130                     135                     140
261 Glu Asp Ile Thr Val Glu Trp Gln Trp Asn Gly Gln Pro Ala Glu Asn
262 145                      150                      155                      160
265 Tyr Lys Asn Thr Gln Pro Ile Met Asn Thr Asn Gly Ser Tyr Phe Val
266                      165                      170                      175
269 Tyr Ser Lys Leu Asn Val Gln Lys Ser Asn Trp Glu Ala Gly Asn Thr
270                      180                      185                      190
273 Phe Thr Cys Ser Val Leu His Glu Gly Leu His Asn His His Thr Glu
274                      195                      200                      205
277 Lys Ser Leu Ser His Ser Pro Gly Lys
278                      210                      215
281 <210> SEQ ID NO: 5
282 <211> LENGTH: 219
283 <212> TYPE: PRT
284 <213> ORGANISM: Mus musculus
286 <400> SEQUENCE: 5
288 Cys Pro Ala Pro Asn Leu Leu Gly Gly Pro Ser Val Phe Ile Phe Pro
289 1                      5                      10                      15
292 Pro Lys Ile Lys Asp Val Leu Met Ile Ser Leu Ser Pro Ile Val Thr
293                      20                      25                      30
296 Cys Val Val Val Asp Val Ser Glu Asp Asp Pro Asp Val Gln Ile Ser
297                      35                      40                      45
300 Trp Phe Val Asn Asn Val Glu Val His Thr Ala Gln Thr Gln Thr His
301                      50                      55                      60
304 Arg Glu Asp Tyr Asn Ser Thr Leu Arg Val Val Ser Ala Leu Pro Ile
305 65                      70                      75                      80
308 Gln His Gln Asp Trp Met Ser Gly Lys Glu Phe Lys Cys Lys Val Asn
309                      85                      90                      95
312 Asn Lys Asp Leu Pro Ala Pro Ile Glu Arg Thr Ile Ser Lys Pro Lys
313                      100                     105                     110
316 Gly Ser Val Arg Ala Pro Gln Val Tyr Val Leu Pro Pro Glu Glu
317                      115                     120                     125
320 Glu Met Thr Lys Lys Gln Val Thr Leu Thr Cys Met Val Thr Asp Phe
321                      130                     135                     140
324 Met Pro Glu Asp Ile Tyr Val Glu Trp Thr Asn Asn Gly Lys Thr Glu
325 145                      150                      155                      160
328 Leu Asn Tyr Lys Asn Thr Glu Pro Val Leu Asp Ser Asp Gly Ser Tyr
329                      165                      170                      175
332 Phe Met Tyr Ser Lys Leu Arg Val Glu Lys Lys Asn Trp Val Glu Arg

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Input Set : A:\AL-9-C2\_corrected.txt

Output Set: N:\CRF4\06232003\I809746A.raw

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333          180          185          190
336 Asn Ser Tyr Ser Cys Ser Val Val His Glu Gly Leu His Asn His His
337          195          200          205
340 Thr Thr Lys Ser Phe Ser Arg Thr Pro Gly Lys
341          210          215
344 <210> SEQ ID NO: 6
345 <211> LENGTH: 219
346 <212> TYPE: PRT
347 <213> ORGANISM: Homo sapiens
349 <400> SEQUENCE: 6
351 Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
352 1          5          10          15
355 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
356          20          25          30
359 Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn
360          35          40          45
363 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
364          50          55          60
367 Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
368 65          70          75          80
371 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
372          85          90          95
375 Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys
376          100         105         110
379 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu
380          115         120         125
383 Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
384          130         135         140
387 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
388 145         150         155         160
391 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
392          165         170         175
395 Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly
396          180         185         190
399 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
400          195         200         205
403 Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
404          210         215
407 <210> SEQ ID NO: 7
408 <211> LENGTH: 219
409 <212> TYPE: PRT
410 <213> ORGANISM: Homo sapiens
412 <400> SEQUENCE: 7
414 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
415 1          5          10          15
418 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
419          20          25          30
422 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
423          35          40          45

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**VERIFICATION SUMMARY**

DATE: 06/23/2003

PATENT APPLICATION: US/09/809,746A

TIME: 14:44:31

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